Namaskar and Good Morning Everyone! Today...

I am honored to stand before you today as the representative of Team 06. My name is [name], and it is my privilege to present our project to our honorable professor, Dr. [name].

Represent By:-

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Roll : 2112021106
Session : 2020-21

Represent To:-

Professor Dr. Gour Chandra Paul
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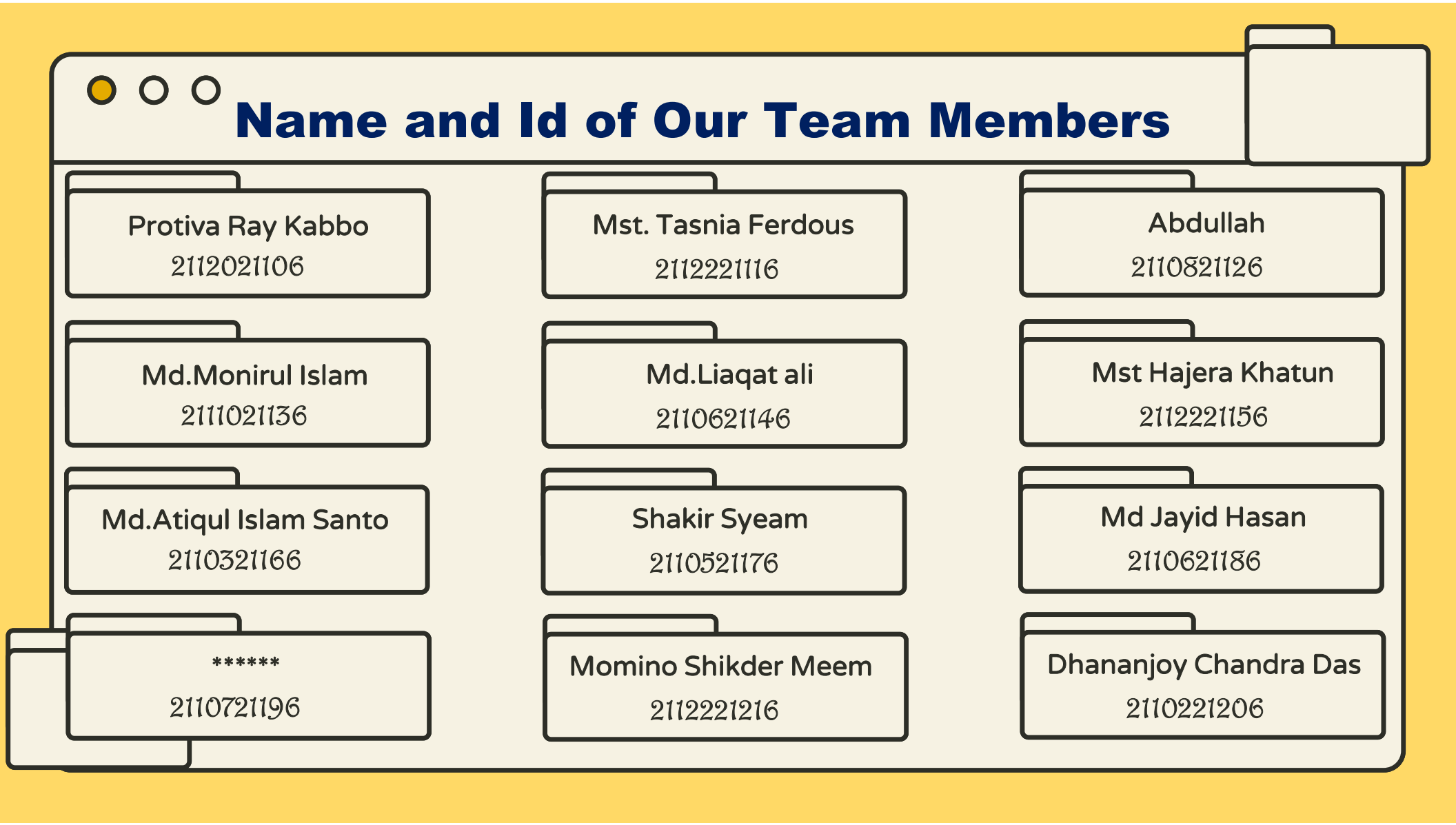
In this slide, we will be showcasing the names and IDs of our team members.



The project contents are divided into 3 parts..

TABLE OF CONTENTS

01

About the project

The project involves creating a program in C to generate a rectangle shape using asterisks based on user input for width and height.

02

Major Requirement

- C Programing Language
- User Interaction
- Rectangle Generation
- Output Display

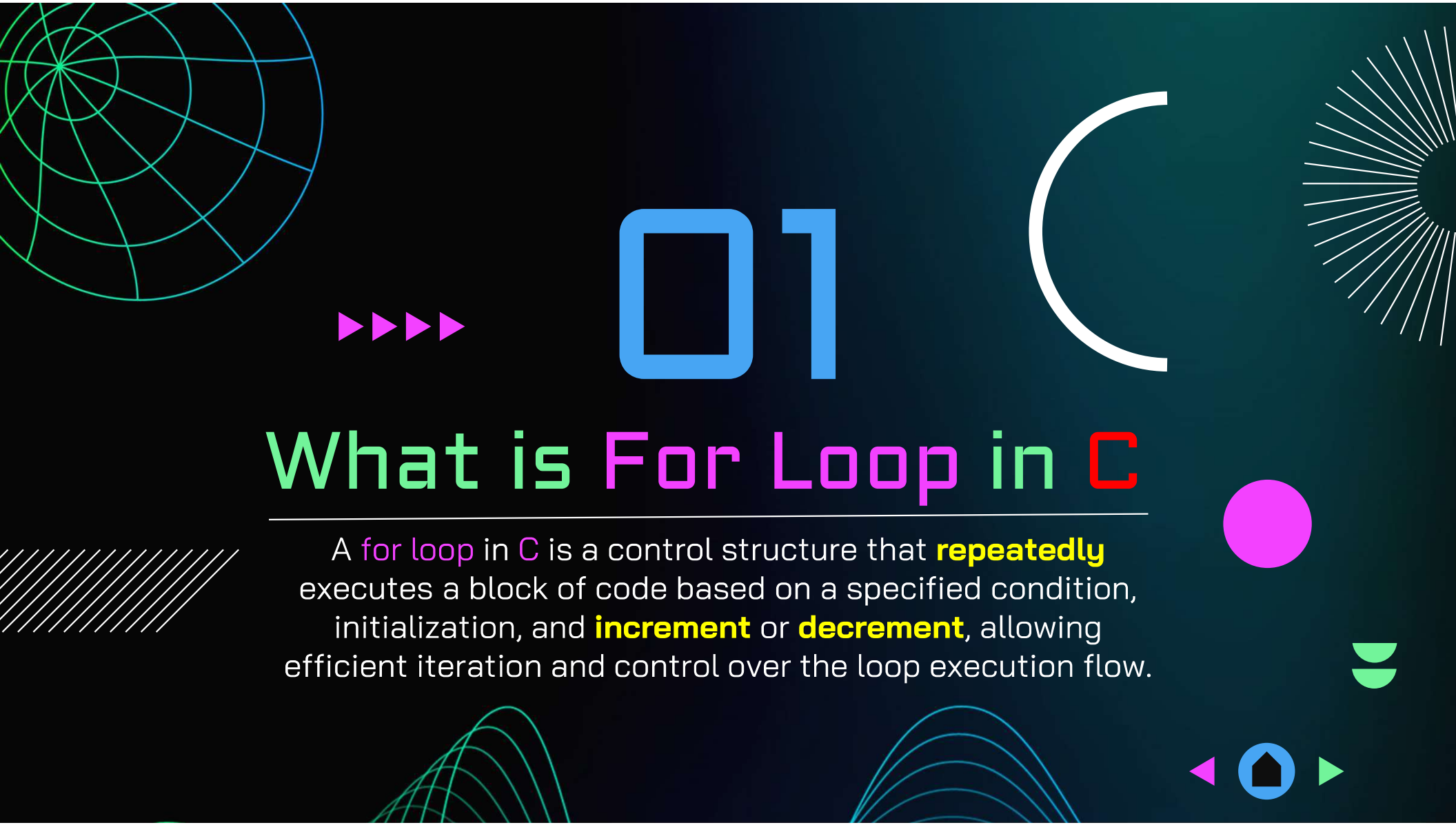
03

Project goals

The project's primary goal is to develop a program that allows users to define the dimensions of a rectangle and generates a visual representation of the rectangle using asterisks.

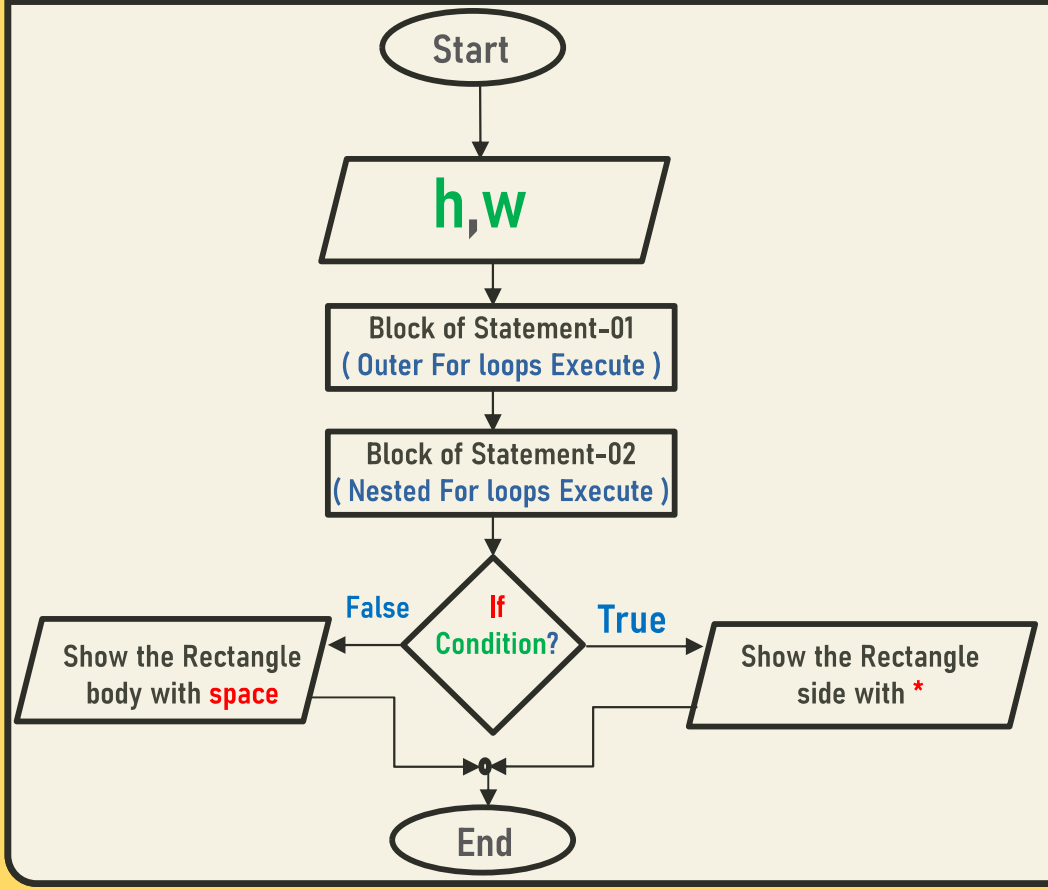
Now, it's time to explore what C is

In this project, we utilize the "for" loop. Let's know about for loop in c



Now, we are going to describe the flow chart and algorithms of this project

Flow Chart



Algorithm

STEP - 01:	Start Program
STEP - 02:	Input height h and width w
STEP - 03:	The nested loops are created to iterate over each row and column of the rectangle. The outer loop controls the rows, while the inner loop controls the columns.
STEP - 04:	if-else condition to determine whether to print an asterisk (*) or a space ( ).
STEP - 05:	End Program

let's Enjoy the code explanation of this project

Code Explanation

```c
#include <stdio.h>

int main() {
    int w, h;

    printf("Enter the width of the rectangle: ");
    scanf("%d", &w);
    printf("Enter the height of the rectangle: ");
    scanf("%d", &h);

    for (int i = 0; i < h; i++) {
        for (int j = 0; j < w; j++)
        {
            if (i == 0 || i == h-1 || j == 0 || j == w-1) {
                printf("*");
            } else {
                printf(" ");
            }
        }
    printf("\n");
    }

    return 0;
}
```

Header Files

Declare variables

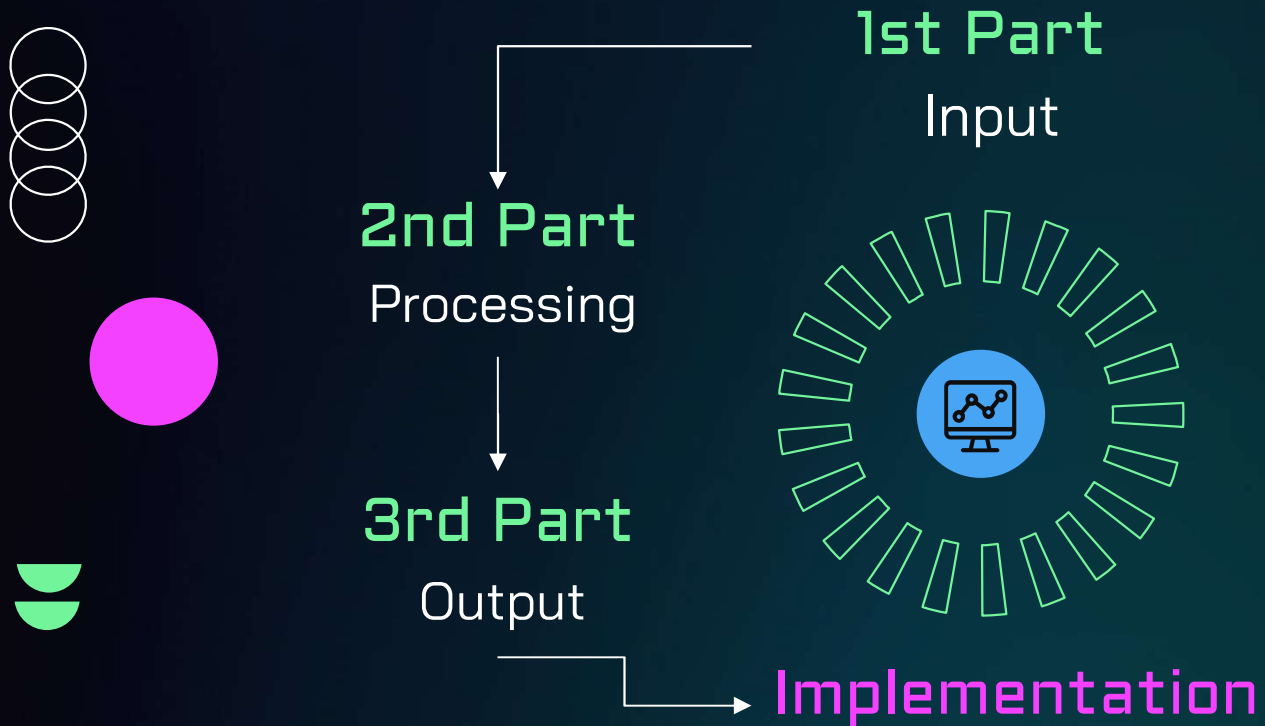
Get input from User

Generate the rectangle using asterisks

Return from the main function

In this project, the code execution follows three distinct parts

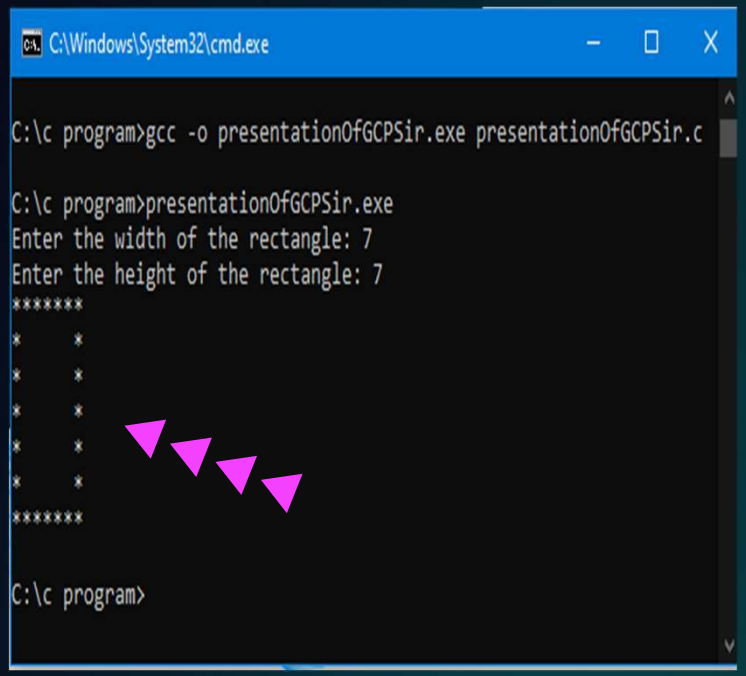
Description of the project content



Now, let's take a look at the results obtained from this project.

Rectangle Printing Program: Input Width and Height, Display Output

```c
#include <stdio.h>
int main() {
    int w, h;
    printf("Enter the width of the rectangle: ");
    scanf("%d", &w);
    printf("Enter the height of the rectangle: ");
    scanf("%d", &h);
    for (int i = 0; i < h; i++) {
        for (int j = 0; j < w; j++) {
            if (i == 0 || i == h-1 || j == 0 || j == w-
1) {
                printf("*");
            } else {
                printf(" ");
            }
        }
   printf("\n");
    }
    return 0;
}
```



Enter the width of the rectangle: 7

Enter the height of the rectangle: 7

Professor Dr. Gour Chandra Paul
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Thanks

Thanks to our honorable professor *Dr. Gour Chandra Paul*, Team members, and presented all teams who enjoyed our presentation attentively. If we get more chances, we will develop ourselves to solve any program.

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Google, Wikipedia , RU Websites